

Model: VGN30

WARNING: If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury, or loss of life.

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- WHAT TO DO IF YOU SMELL GAS
 - Do not try to light any appliance.
 - Do not touch any electrical switch; do not use any phone in your building.
 - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
 - If you cannot reach your gas supplier, call the fire department.
- Installation and service must be performed by a qualified installer, service agency, or the gas supplier.

WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause injury or property damage. Refer to this manual for correct installation and operational procedures. For assistance or additional information consult a qualified installer, service agency, or the gas supplier.



Save this manual for future reference.

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SAFETY INFORMATION

WARNINGS

IMPORTANT: Read this Owner's Manual carefully and completely before trying to assemble, operate, or service this heater. Improper use of this heater can cause serious injury or death from burns, fire, explosion, electrical shock, and carbon monoxide poisoning.



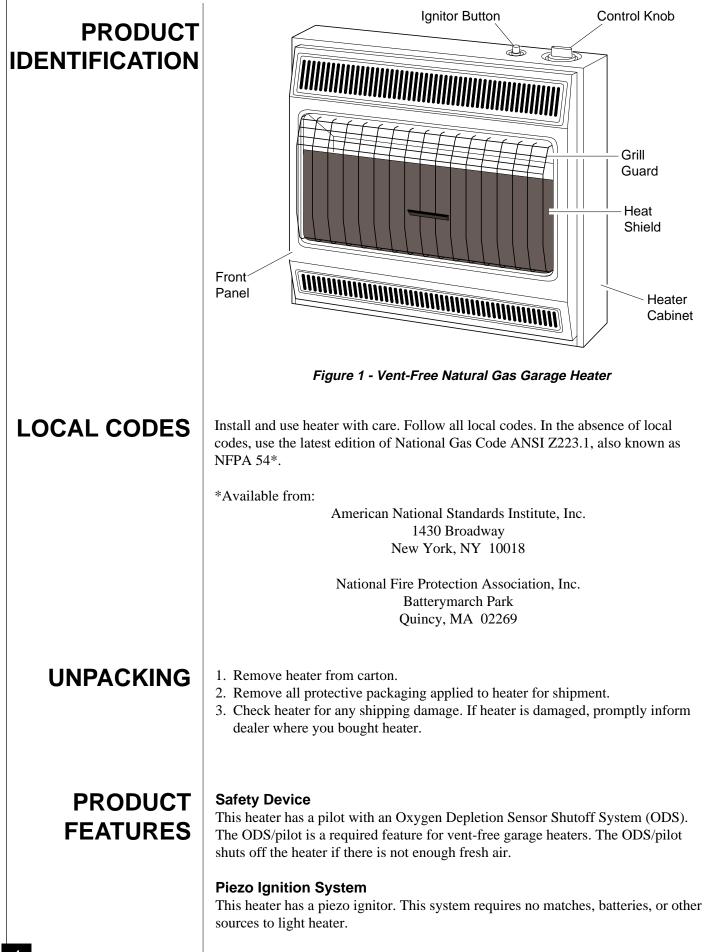
Carbon monoxide poisoning may lead to death!

Carbon Monoxide Poisoning: Early signs of carbon monoxide poisoning resemble the flu, with headaches, dizziness, or nausea. If you have these signs, the heater may not be working properly. **Get fresh air at once!** Have heater serviced. Some people are more affected by carbon monoxide than others. These include pregnant women, persons with heart or lung disease or anemia, those under the influence of alcohol, and those at high altitudes.

Natural Gas: Natural gas is odorless. An odor-making agent is added to natural gas. The odor helps you detect a natural gas leak. However, the odor added to natural gas can fade. Natural gas may be present even though no odor exits.

Make certain you read and understand all Warnings. Keep this manual for reference. It is your guide to safe and proper operation of this heater.

SAFETY	A WARNINGS Continued
INFORMATION Continued	1. Use only natural gas. Do not convert heater to use different fuel type.
Commueu	 2. If you smell gas Shut off gas supply. Do not try to light any appliance. Do not touch any electrical switch; do not use any phone in your building. Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions. If you cannot reach your gas supplier, call the fire department.
	 3. Never install the heater in sleeping quarters, a mobile home, or a recreational vehicle where curtains, furniture, clothing, or other flammable objects are less than 36 inches from the front, top, or sides of the heater as a fireplace insert in high traffic areas in windy or drafty areas
	4. Open window or garage door to admit fresh, outside air when using heater.Open window one (1) or two (2) inches. When used without fresh, outside air, heater may give off carbon monoxide gas.
	5. Never run heater in small, closed room.
	6. If heater shuts off, do not relight until you provide fresh, outside air. If heater keeps shutting off, have it serviced.
	 7. Do not run heater where flammable liquids or vapors are used or stored under dusty conditions
	8. Never place any objects on the heater.
	9. Surface of heater becomes very hot when running heater. Keep children and adults away from hot surface to avoid burns or clothing ignition. Heater will remain hot for a time after shut-down. Allow surface to cool before touching.
	10. Make sure grill guard is in place before running heater.
	11. Do not alter heater or its controls. Any change may create a safety hazard.
	12. Do not use heater if any part of heater has been under water.
	13. Turn off and unplug heater and let cool before servicing. Only a qualified service person should service and repair heater.
	14. Do not operate heater above elevations of 4,500 feet.
	service person should service and repair heater.



INSTALLING TO WALL

NOTICE

A qualified service person must install heater. Follow all local codes.

CHECK GAS TYPE

Use only natural gas. If your gas supply is not natural gas, do not install heater. Call dealer where you bought heater for proper type heater.

INSTALLATION ITEMS

Before installing the heater, make sure you have the items listed below.

• piping (check local codes)

• ground joint union

- test gauge connection * (see
- sealant (resistant to propane gas)manual shutoff valve *
- Figure 10, page 11)
- sediment trap
- tee joint
 - pipe wrench

* An A.G.A. design certified manual shutoff valve with 1/8" NPT tap is an acceptable alternative to test gauge connection. Purchase the optional A.G.A. design certified manual shutoff valve from your dealer. See ACCESSORIES, page 23.

LOCATING HEATER

This heater is designed to be mounted on a wall.

WARNING

Maintain the minimum clearances shown in Figure 2 (page 6). If you can, provide greater clearances from floor, ceiling, and joining wall.

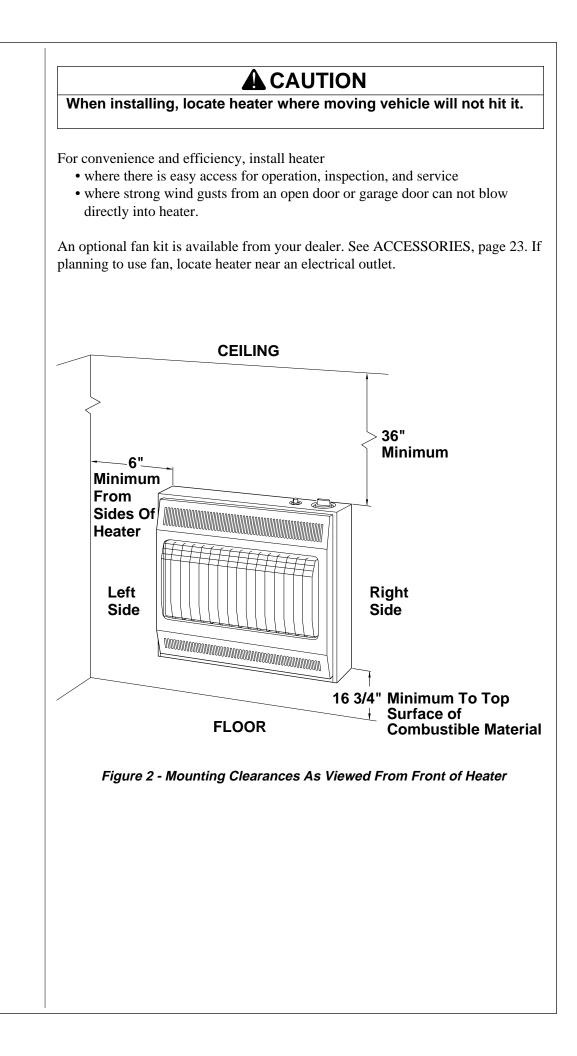
Never install the heater

- in sleeping quarters, a mobile home, or a recreational vehicle
- where curtains, furniture, clothing, or other flammable objects are less than 36 inches from the front, top, or sides of the heater
- as a fireplace insert
- in high traffic areas
- in windy or drafty areas

NOTICE

Do not install or operate heater in areas where impurities in the air (such as tobacco smoke) exist. Particles from these impurities may discolor walls.

Continued



INSTALLING HEATER TO WALL

Mounting Bracket

The mounting bracket is located on back panel of heater. It has been taped there for shipping. Remove mounting bracket from back panel.

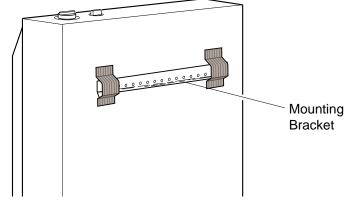


Figure 3 - Mounting Bracket Location

Removing Front Panel Of Heater

- 1. Remove two screws near bottom corners of front panel.
- 2. Lift straight up on grill guard until it stops. Grill guard will slide up about 1/4".
- 3. Pull bottom of front panel forward, then down.
- 4. Remove cardboard packing from grill and heat shield.

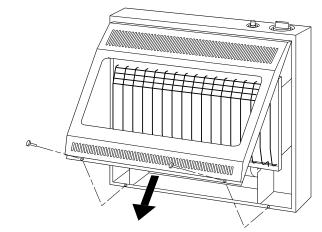


Figure 4 - Removing Front Panel Of Heater

Methods For Attaching Mounting Bracket To Wall

Only use last hole on each end of mounting bracket to attach bracket to wall. These two holes are 16 inches apart from their centers. Attach mounting bracket to wall in one of two ways.

- 1. Attaching to wall stud
- 2. Attaching to wall anchor

Attaching to wall stud This method provides the strongest hold. Insert mounting screws through mounting bracket and into wall studs.

Attaching to wall anchor This method allows you to attach mounting bracket to hollow walls (wall areas between studs) or to solid walls (concrete or masonry).

Decide which method better suits your needs. Either method will provide a secure hold for the mounting bracket.

Marking Screw Locations

1. Tape mounting bracket to wall where heater will be located. Make sure mounting bracket is level.

WARNING

Maintain minimum clearances shown in Figure 5. If you can, provide greater clearances from floor and joining wall.

- 2. Mark screw locations on wall (see Figure 5). *Note:* Only mark last hole on each end of mounting bracket. Insert mounting screws through these holes only.
- 3. Remove tape and mounting bracket from wall.

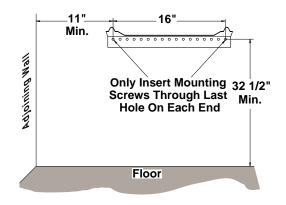


Figure 5 - Mounting Bracket Clearances

Attaching Mounting Bracket To Wall

Note: Wall anchors, mounting screws, and spacers are in hardware package. The hardware package is provided with heater.

Attaching to wall stud method

For attaching mounting bracket to wall studs

- 1. Drill holes at marked locations using 9/64" drill bit.
- 2. Place mounting bracket onto wall. Line up last hole on each end of bracket with holes drilled in wall.
- 3. Insert mounting screws through bracket and into wall studs.
- 4. Tighten screws until mounting bracket is firmly fastened to wall studs.

Attaching to wall anchor method

For attaching mounting bracket to hollow walls (wall areas between studs) or solid walls (concrete or masonry)

- 1. Drill holes at marked locations using 5/16" drill bit. For solid walls (concrete or masonry), drill at least 1" deep.
- 2. Fold wall anchor as shown in Figure 6.

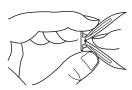


Figure 6 - Folding Anchor

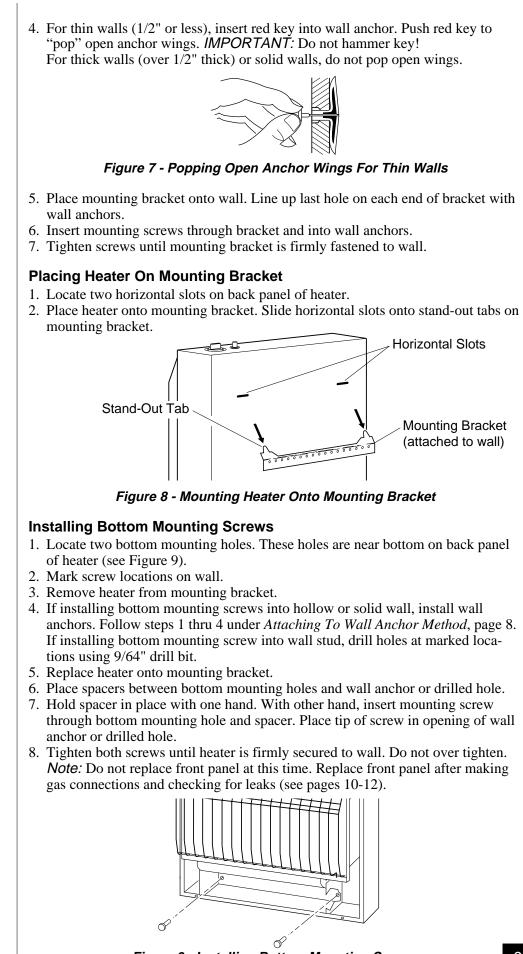


Figure 9 - Installing Bottom Mounting Screws

CONNECTING TO GAS SUPPLY

NOTICE

A qualified service person must connect heater to gas supply. Follow all local codes.

Never connect heater to private (non-utility) gas wells. This gas is commonly known as well-head gas.

IMPORTANT: Check gas line pressure before connecting heater to gas line. Gas line pressure must be no greater than 14 inches of water. If gas line pressure is higher, heater regulator damage could occur.

ACAUTION

Use only new, black iron or steel pipe. Copper tubing may be used in certain areas. Check your local codes. Use pipe of 1/2" diameter or greater to allow proper gas volume to heater. If pipe is too small, undue loss of pressure will occur.

Installation must include a manual shutoff valve, union, and plugged 1/8" NPT tap. Locate NPT tap within reach for test gauge hook up. NPT tap must be upstream from heater (see Figure 10, page 11).

Apply pipe joint sealant lightly to male threads. This will prevent excess sealant from going into pipe. Excess sealant in the pipe could result in clogged heater valves.

Use pipe joint sealant that is resistant to liquid petroleum (LP) gas.

Install sediment trap in supply line as shown in Figure 10. Locate sediment trap where it is within reach for cleaning. Locate sediment trap where trapped matter is not likely to freeze. A sediment trap traps moisture and contaminants. This keeps them from going into heater controls. If sediment trap is not installed or is installed wrong, heater may not run properly.

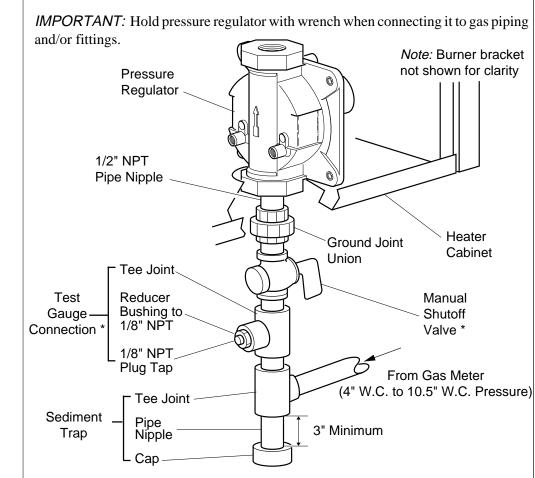


Figure 10 - Gas Connection

* An A.G.A. design certified manual shutoff valve with 1/8" NPT tap is an acceptable alternative to test gauge connection. Purchase the optional A.G.A. design certified manual shutoff valve from your dealer. See ACCESSORIES, page 23.

Test all gas piping and connections for leaks after installing or servicing. Correct all leaks at once.

Never use an open flame to check for a leak. Apply a mixture of liquid soap and water to all joints. Bubbles forming show a leak. Correct all leaks at once.

PRESSURE TESTING GAS SUPPLY PIPING SYSTEM

Test Pressures In Excess Of 1/2 PSIG

- 1. Disconnect heater and its individual manual shutoff valve from gas supply piping system. Pressures in excess of 1/2 PSIG will damage heater regulator.
- 2. Cap off open end of gas pipe where manual shutoff valve was connected.
- 3. Pressurize supply piping system by either using compressed air or opening main gas valve located on or near gas meter.

Continued 1

CHECKING GAS CONNECTIONS

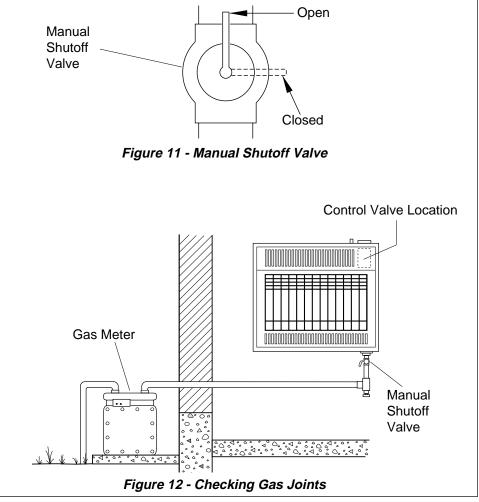
- 4. Check all joints of gas supply piping system. Apply mixture of liquid soap and water to gas joints. Bubbles forming show a leak.
- 5. Correct all leaks at once.

Test Pressures Equal To or Less Than 1/2 PSIG

- 1. Close manual shutoff valve (see Figure 11).
- 2. Pressurize supply piping system by either using compressed air or opening main gas valve located on or near gas meter.
- 3. Check all joints from gas meter to manual shutoff valve (see Figure 12). Apply mixture of liquid soap and water to gas joints. Bubbles forming show a leak.
- 4. Correct all leaks at once.

PRESSURE TESTING HEATER GAS CONNECTIONS

- 1. Open manual shutoff valve (see Figure 11).
- 2. Open main gas valve located on or near gas meter.
- 3. Make sure control knob of heater is in the OFF position.
- Check all joints from manual shutoff valve to control valve (see Figure 12). Apply mixture of liquid soap and water to gas joints. Bubbles forming show a leak.
- 5. Correct all leaks at once.
- 6. Light heater (see OPERATING HEATER, pages 13 thru 15). Check the rest of the internal joints for leaks.
- 7. Turn off heater (see TO TURN OFF GAS TO APPLIANCE, page 15).
- 8. Replace front panel.



OPERATING HEATER

FOR YOUR SAFETY READ BEFORE LIGHTING

WARNING

If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

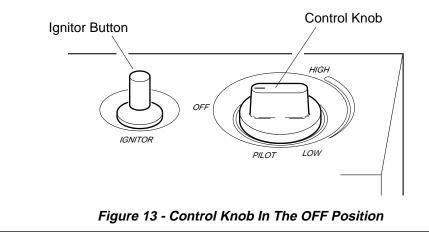
- A. This appliance has a pilot which must be lighted by hand. When lighting the pilot, follow these instructions exactly.
- B. BEFORE LIGHTING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

WHAT TO DO IF YOU SMELL GAS

- Do not try to light any appliance.
- Do not touch any electric switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.
- C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it, call a qualified service technician or gas supplier. Force or attempted repair may result in a fire or explosion.
- D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

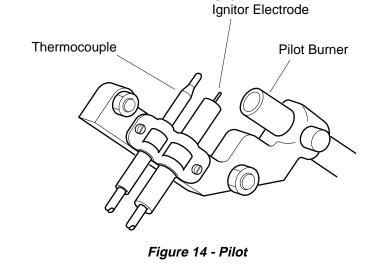
LIGHTING INSTRUCTIONS

- 1. STOP! Read the safety information above.
- 2. Make sure manual shutoff valve is fully open.
- 3. Turn control knob clockwise \frown to the OFF position.



- 4. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the safety information at the top of page 13. If you don't smell gas, go to the next step.
- 5. Press in control knob and turn counterclockwise to the PILOT position. Keep control knob pressed in for five (5) seconds (see Figure 13).
 Note: You may be running this heater for the first time after hooking up to gas supply. If so, the control knob may need to be pressed in for 30 seconds. This will allow air to bleed from the gas system.
 - If control knob does not pop up when released, contact a qualified service person or gas supplier for repairs.
- 6. With control knob pressed in, push down and release ignitor button. This will light pilot. The pilot is attached to the front of burner. The burner and pilot are located behind the heat shield. If needed, keep pressing ignitor button until pilot lights.

Note: If pilot does not stay lit, refer to TROUBLESHOOTING, pages 17 thru 20. Also contact a qualified service person or gas supplier for repairs. Until repairs are made, light pilot with match. To light pilot with match, see MANUAL LIGHTING PROCEDURE, page 15.



Keep control knob pressed in for 30 seconds after lighting pilot. After 30 seconds, release control knob.
 Note: If pilot goes out, repeat steps 3 thru 7.

8. Turn control knob counterclockwise K to the LOW position. The main

burner should light. Set control knob to any heat level between HIGH and LOW. To turn control knob from LOW to a higher setting, press in the control knob and turn counterclockwise

Note: Both HIGH and LOW are locked positions. You must press in control knob before turning it from these positions.

Do not try to adjust heating levels by using the manual shutoff valve.

Continued

TO TURN OFF GAS TO APPLIANCE

Shutting Off Heater

- 1. Turn control knob clockwise \frown to the PILOT position.
- 3. Turn off all electric power to the appliance if service is to be performed.

Shutting Off Burner Only (pilot stays lit)

MANUAL LIGHTING PROCEDURE

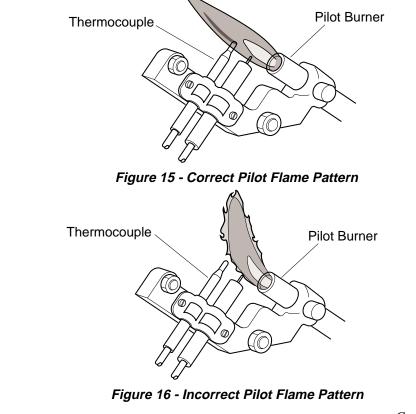
- 1. Remove front panel (see Figure 3, page 7).
- 2. Follow steps 1 thru 5 under LIGHTING INSTRUCTIONS, pages 13 and 14.
- 3. With control knob pressed in, strike match. Hold match to pilot until pilot lights.
- 4. Keep control knob pressed in for 30 seconds after lighting pilot. After 30 seconds, release control knob.
- 5. Replace front panel.

INSPECTING BURNER

Check pilot flame pattern and burner flame pattern often.

PILOT FLAME PATTERN

Figure 15 shows a correct pilot flame pattern. Figure 16 shows an incorrect pilot flame pattern. The incorrect pilot flame is not touching the thermocouple. This will cause the thermocouple to cool. When the thermocouple cools, the heater will shut down.



If pilot flame pattern is incorrect, as shown in Figure 16

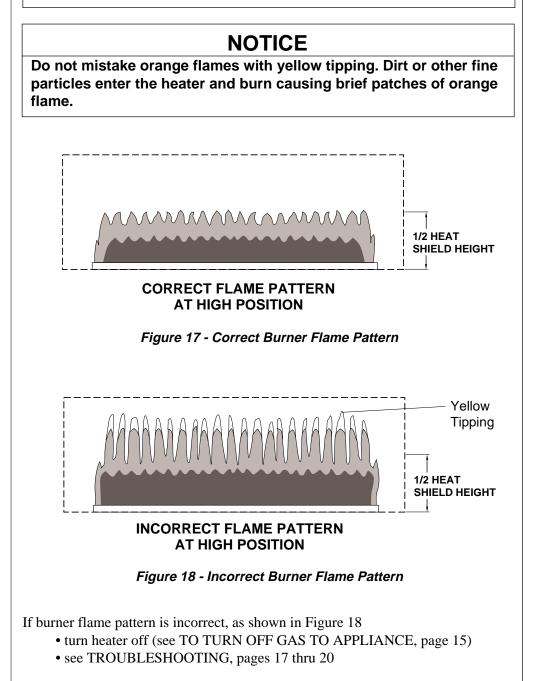
- turn heater off (see TO TURN OFF GAS TO APPLIANCE, page 15)
- see TROUBLESHOOTING, pages 17 thru 20

BURNER FLAME PATTERN

Figure 17 shows a correct burner flame pattern. Figure 18 shows an incorrect burner flame pattern. The incorrect burner flame pattern shows yellow tipping of the flame. It also shows the flame higher than 1/2 the heat shield height.

WARNING

If yellow tipping occurs, your heater could produce increased levels of carbon monoxide. If burner flame pattern shows yellow tipping, follow instructions at bottom of this page.



CLEANING AND MAINTENANCE

WARNING

Turn off heater and let cool before cleaning.

You must keep control areas, burner, and circulating air passageways of heater clean. Inspect these areas of heater before each use. Have heater inspected yearly by a qualified service person. Heater may

need more frequent cleaning due to sawdust, cobwebs, etc.

ODS/PILOT AND BURNER

• Use a vacuum cleaner, pressurized air, or small, soft bristled brush to clean.

CABINET

Air Passageways

• Use a vacuum cleaner or pressurized air to clean.

Exterior

• Use a soft cloth dampened with a mild soap and water mixture. Wipe the cabinet to remove dust.

TROUBLE-SHOOTING

Note: All troubleshooting items are listed in order of operation.

	RNING
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Turn off and unplug heater and let cool before servicing. Only a qualified service person should service and repair heater.

Never use a wire, needle, or similar object to clean ODS/pilot. This can damage ODS/pilot unit.

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
When ignitor button is pressed, there is no	1. Ignitor electrode posi- tioned wrong	1. Replace ignitor
spark at ODS/pilot	2. Ignitor electrode broken	2. Replace ignitor
	3. Ignitor electrode not con- nected to ignitor cable	
	4. Ignitor cable pinched or wet	4. Free ignitor cable if pinched by any metal or tubing. Keep ignitor cable dry
	5. Piezo ignitor nut is loose	5. Tighten nut holding piezo ignitor to heater cabinet Nut is located inside heater cabinet at top
	6. Broken ignitor cable	6. Replace ignitor cable
	7. Bad piezo ignitor	7. Replace piezo ignitor <i>Continued</i>

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
When ignitor button is pressed, there is spark at ODS/pilot but no ignition	 Gas supply turned off or manual shutoff valve closed Control knob not in PI- 	 Turn on gas supply on open manual shutoff valve Turn control knob to PI-
Ignition	LOT position	LOT position
	3. Control knob not pressed in while in PI- LOT position	3. Press in control know while in PILOT position
	4. Air in gas lines when installed	4. Continue holding down control knob. Repeat ig- niting operation until air is removed
	5. ODS/pilot is clogged	5. Clean ODS/pilot (see CLEANING AND MAINTENANCE page 17) or replace ODS/pilot assembly
	6. Gas regulator setting is not correct	6. Replace gas regulator
ODS/pilot lights but flame goes out when	1. Control knob not fully pressed in	1. Press in control knob fully
control knob is released	2. Control knob not pressed in long enough	2. After ODS/pilot lights keep control knot pressed in 30 seconds
	3. Manual shutoff valve not fully open	 Fully open manual shut off valve
	4. Thermocouple connec- tion loose at control valve	4. Hand tighten until snug then tighten 1/4 turr more
	5. Pilot flame not touching thermocouple, which allows thermocouple to	5. A) Contact local natura gas company
	 anows mermocouple to cool, causing pilot flame to go out. This problem could be caused by one or both of the following: A) Low gas pressure B) Dirty or partially clogged ODS/pilot 	B) Clean ODS/pilot (see CLEANING AND MAINTENANCE page 17) or replace ODS/pilot assembly
	6. Thermocouple dam- aged	6. Replace thermocouple
	7. Control valve damaged	7. Replace control valve
Burner does not light after ODS/pilot is lit	1. Burner orifice is clogged	1. Clean burner (see CLEANING AND MAINTENANCE page 17) or replace
	Continued	burner orifice <i>Continued</i>

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
Burner does not light after ODS/pilot is lit (continued from page 18)	 Burner orifice diameter is too small Inlet gas pressure is too low 	 Replace burner orifice Contact local natural company
Delayed ignition of burner	 Manifold pressure is too low Burner orifice is clogged 	company 1. Contact local natural company 2. Clean burner (CLEANING A MAINTENANCE, p 17) or replace burner fice
Burner backfiring during combustion	 Burner orifice is clogged or damaged Durner democed 	 Clean burner (CLEANING A MAINTENANCE, p 17) or replace burner fice Dardees burner
	 Burner damaged Gas regulator defective 	 Replace burner Replace gas regulator
Yellow flame during burner combustion	1. Not enough air	 Check burner for dirt debris. If found, cl burner (see CLEANI AND MAINTENAN page 17)
	2. Gas regulator defective	2. Replace gas regulator
Slight smoke or odor during initial opera- tion	1. Residues from manu- facturing processes	1. Problem will stop aft few hours of operatio
Heater produces a whistling noise when burner is lit	1. Turning control knob to HIGH position when burner is cold	1. Turn control knob LOW position and warm up for a minute
	2. Air in gas line	2. Operate burner until a removed from line. H gas line checked by lo
	3. Air passageways on heater blocked	natural gas company 3. Observe minimum ins lation clearances (Figure 2, page 6)
	4. Dirty or partially clogged burner orifice	 4. Clean burner (CLEANING A MAINTENANCE, p 17) or replace burner fice
		Continued

• Do no • Do no any pl • Immed neighl instru • If you	A WARNING nell gas off gas supply. It try to light any appliance t touch any electrical switch none in your building. diately call your gas sup poor's phone. Follow the g ctions. cannot reach your gas sup epartment.	h; do not use pplier from a as supplier's
OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
Heater produces a clicking/ticking noise just after burner is lit or shut off	1. Metal expanding while heating or contracting while cooling	1. This is common with most heaters. If noise is excessive, contact quali- fied service person
Heater produces un- wanted odors	 Heater burning vapors from paint, solvents, glues, etc. Gas leak. See Warn- ing statement at top of page 	 Ventilate garage. Stop using odor causing prod- ucts while heater is run- ning Locate and correct all leaks (see CHECKING GAS CONNECTIONS, page 11)
Heater shuts off in use (ODS operates)	 Not enough fresh air is available Low line pressure ODS/pilot is partially clogged 	 Open window and/or door for ventilation Contact local natural gas company Clean ODS/pilot (see CLEANING AND MAINTENANCE, page 17)
Gas odor even when control knob is in OFF position	 Gas leak. See Warn- ing statement at top of page Control valve defective 	 Locate and correct all leaks (see CHECKING GAS CONNECTIONS, page 11) Replace control valve
Gas odor during com- bustion	 Foreign matter between control valve and burner Gas leak. See Warn- ing statement at top of page 	 Take apart gas tubing and remove foreign mat- ter Locate and correct all leaks (see CHECKING GAS CONNECTIONS, page 11)

TECHNICAL SERVICE	You may have further questions about insta If so, contact DESA International's Techni 5190.	
SPECIFICATIONS	B.T.U (Variable) Type Gas Ignition Pressure Regulator Setting Inlet Gas Pressure (inches of water) Maximum Minimum Dimensions, Inches (H x W x D) Heater Carton Weight (pounds) Heater Shipping	15,000/30,000 Natural Only Piezo 3" W.C. 7" 5" 23.5 x 25.9 x 8.0 25.8 x 28.7 x 10.1 30 35
SERVICE HINTS	 When gas pressure is too low pilot will not stay lit burner will have delayed ignition heater will not produce specified heat When gas quality is bad pilot will not stay lit burner will produce flames and soot heater will backfire when lit You may feel your gas pressure is too low local natural gas supplier. 	or gas quality is bad. If so, contact your

REPLACEMENT PARTS

Note: Use only original replacement parts. This will protect your warranty coverage for parts replaced under warranty.

Parts Under Warranty

Contact authorized dealers of this product. If they can't supply original replacement part(s), call DESA International's Technical Service Department at 1-800-323-5190.

When calling, have ready

- your name
- your address
- model number of your heater
- how heater was malfunctioning
- type of gas used (propane or natural gas)
- purchase date

Usually, we will ask you to return the defective part to the factory.

Parts Not Under Warranty

Contact authorized dealers of this product. If they can't supply original replacement part(s), call DESA International's Parts Department at 1-800-972-7879.

When calling, have ready

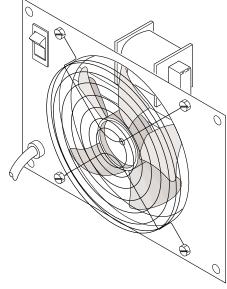
- model number of your heater
- the replacement part number

ACCESSORIES

Purchase these heater accessories from your local dealer. If they can not supply these accessories, call DESA International's Parts Department at 1-800-972-7879. You can also write to the address listed on the back page of this manual.

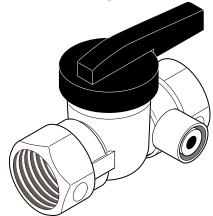
FAN KIT - GA2100A

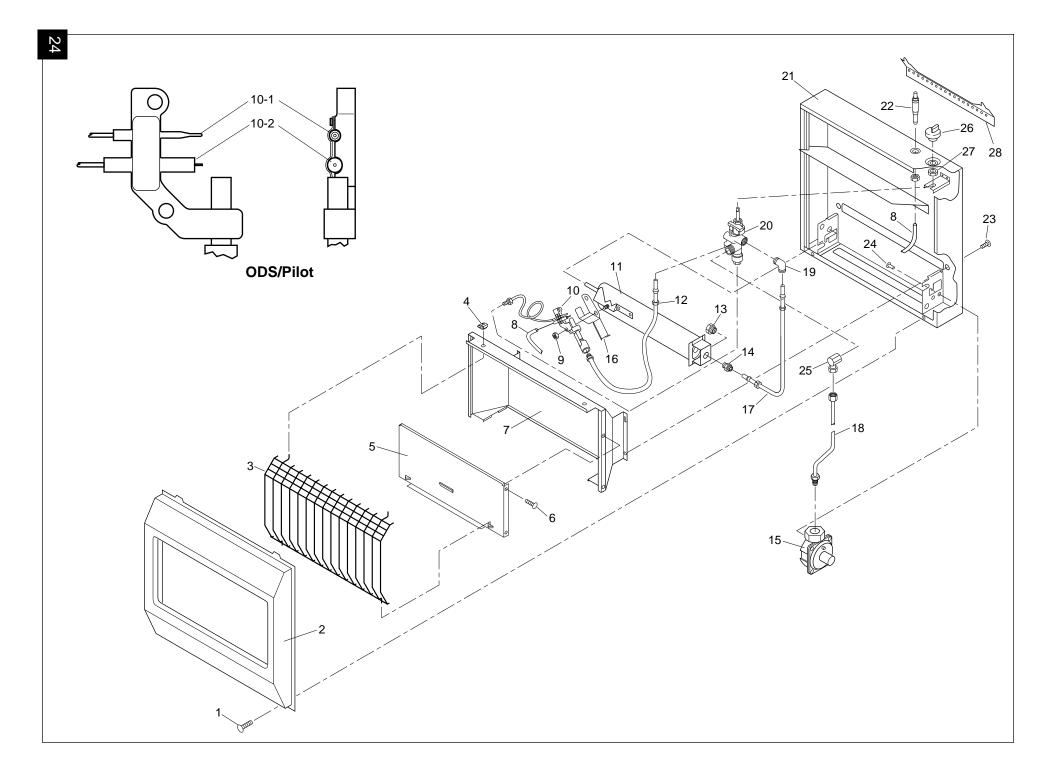
Provides better heat distribution. Makes heater more efficient. Complete installation and operating instructions provided with fan.



MANUAL SHUTOFF VALVE - GA5010

Manual shutoff valve with 1/8" NPT tap.





PARTS LIST

This list contains replaceable parts used in your heater. When ordering parts, follow the instructions listed under REPLACEMENT PARTS on page 22 of this manual.

NO. 1 2 3	NUMBER 098304-01 098742-12	DESCRIPTION Screw, #10 x 3/8"	QTY.
2		Screw, #10 x 3/8"	
	098742-12		2
2		Front Panel	1
3	098197-02	Grill Guard	1
4	098342-01	Grill Guard Clip	2
5	099001-01BR	Heat Shield	1
6	M11084-26	Screw, #10 x 3/8"	4
7	098352-02BR	Deflector Unit	1
8	098271-02	Ignitor Cable	1
9	098249-01	Nut, M5	2
10	098244-03	ODS/Pilot, N.G.	1
10-1	098593-01	Thermocouple	1
10-2	098515-01	Ignitor Electrode	1
11	099126-02	Burner	1
12	098517-01	3/16" Pilot Tubing	1
13	098251-06	Injector	1
14	098250-01	Injector Holder	1
15	098867-04	Pressure Regulator	1
16	099553-01	Pilot Shield	1
17	098519-01	3/8" Outlet (Burner) Tubing	1
18	098298-03	3/8" Inlet Tubing	1
19	098265-01	3/8" NPT Male Elbow	1
20	098246-04	Control Valve	1
21	098529-02	Cabinet	1
22	097159-01	Piezo Ignitor	1
23	M11084-26	Screw, #10 x 3/8"	2
24	M11084-38	Screw, #8 x 3/8"	2
25	098268-02	1/2" NPT Female Elbow	1
26	098354-01	Control Knob	1
27	098508-01	Valve Retainer Nut	1
28	099066-01	Mounting Bracket	1
PARTS AVAILABLE — NOT SHOWN			
	098306-01	Control Position Label	1

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WARRANTY INFORMATION

KEEP THIS WARRANTY

Model	
Serial No	
Date Purchased	

Always specify model and serial numbers when communicating with the factory.

We reserve the right to amend these specifications at any time without notice. The only warranty applicable is our standard written warranty. We make no other warranty, expressed or implied.

LIMITED WARRANTY VANGUARD VENT-FREE GARAGE HEATERS

DESA International warrants this product and any parts thereof, to be free from defects in material and workmanship for two years from the date of first purchase, provided that the product has been properly installed, operated, and maintained in accordance with all applicable instructions. To make a claim under this warranty, the bill of sales or proof of purchase must be presented.

This warranty is extended only to the original retail purchaser. This warranty covers only the cost of parts and labor required to restore this heater to proper operating condition. Warranty parts must be obtained through authorized dealers of this product and/or DESA International who will provide original factory replacement parts. Failure to use original factory replacement parts voids this warranty. The heater must be installed by a qualified installer in accordance with all local codes and instructions furnished with the unit.

This warranty does not apply to parts that are not in original condition because of normal wear and tear, or parts that fail or become damaged as a result of misuse, accidents, lack of proper maintenance, alteration, tampering, contaminated fuels, or defects caused by improper installation. Travel, transportation, and incidental costs associated with warranty repairs are not reimbursable under this warranty and are the responsibility of the owner.

To the full extent allowed by the law of the jurisdiction that governs the sale of the product, this express warranty excludes any and all other expressed warranties and limits the duration of any and all implied warranties, including warranties of merchantability and fitness for a particular purpose to two years from the date of first purchase; and DESA International's liability is hereby limited to the purchase price of the product and DESA International shall not be liable for any other damages whatsoever including indirect, incidental, or consequential damages.

Some states do not allow a limitation of how long an implied warranty lasts or an exclusion or limitation of incidental or consequential damages, so the above limitation of implied warranties, or exclusion, or limitation of damages may not apply to you.

This warranty provides the original retail purchaser with specific legal rights. For specific information regarding those rights, please consult the applicable state laws.

For information about this warranty write:



P.O. Box 90004 2701 Industrial Drive Bowling Green, KY 42102-9004

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